

## **7.0 INDEX**

-A-

### **Accident**

- cleanup costs, 4-10, 4-11
- consequences of, vi, 2-16, 4-6, 4-11
- probabilities, viii, 2-19, 2-21, 4-5, 4-7
- scenarios, vi, 1-1, 2-16, 4-4
- segments, viii, 2-12, 2-13, 4-4, 4-5
- swingby, ix, 2-17, 2-22, 4-5, 4-7, 4-9, 4-10, 4-12

### **Acronyms, xv**

### **Affected Environment, 3-1**

### **Agencies and Individuals Consulted, 6-1**

### **Alternatives**

- comparison of, 2-24
- to proposed action, vi, 2-14, 2-16

-B-

### **Benefits of mission, iii, 1-3**

-C-

### **Cape Canaveral Air Station (CCAS), ii, vi, 1-1, 2-12, 2-17, 3-1, 4-12**

### **Cassini mission description, 2-2, 2-12**

### **Cassini spacecraft, I, ii, iii, v, vi, 1-1, 1-3, 2-4, 2-6, 2-7, 2-13, 2-14, 4-6, 4-10, 4-12**

### **Centaur, ii, vi, 1-1, 2-9, 2-10, 2-12**

### **Cleanup of contaminated areas, 4-10, 4-11**

### **Command Shutdown and Destruct System (CSDS), 2-12**

### **Contributors to the SEIS, 5-1**

-D-

### ***de minimis*, 4-1**

### **Department of Energy (DOE), i, iii, ix, 1-1, 2-19, 4-1**

-E-

### **Economic impacts, 4-10**

### **Electrical power for the spacecraft, 2-6**

### **Emergency response planning, 4-10**

### **Environmental consequences, 2-14, 4-6**

### **European Space Agency (ESA), i, iii, 1-3, 2-6**

-F-

Fueled Clad, 2-4

-G-

Galileo mission, vii, 1-2, 2-9, 2-17, 2-19, 2-20, 4-2, 4-4, 4-6, 4-10

General Purpose Heat Source (GPHS), vii, 2-4, 2-9, 4-1

Graphite Impact Shell (GIS), 2-4, 2-18, 4-13

Gravity Assist (Swingby)

    Earth Gravity Assist (EGA) trajectory, vi, vii, viii, 1-1, 1-2, 2-1, 2-2, 2-4, 2-16, 4-2,  
    4-4, 4-6, 4-9

    Non-Earth Gravity Assist trajectory, vi, 2-14, 2-16, 4-12

-H-

Health effects, viii, 2-17, 2-18, 2-22, 4-2, 4-6, 4-8

Huygens Probe, iii, 1-3, 2-4

Hydrazine monopropellant, 2-4, 2-9

-I-

Inadvertent reentry from Earth orbit accident scenario, viii, 2-12, 2-16, 2-17, 2-22, 4-2

Incomplete or unavailable information, 4-13

Italian Space Agency (ASI), i, iii, 1-3

-J-

Jupiter, 2-2

-K-

Kennedy Space Center (KSC), vi, 2-1, 2-12, 2-16, 3-1

-L-

Land Contamination, viii, 2-20, 2-21, 2-22, 2-23, 4-8, 4-9, 4-10

Launch phases, 1-2, 2-12, 2-16, 2-17

Launch segments, vii, viii, 2-13, 2-16, 2-24, 4-4

Launch vehicle

    Solid Rocket Motor Upgrade (SRMU), 2-9

    Titan IV, vi, 2-9

-M-

Maximum individual dose, 2-21, 4-6, 4-8

Mission alternative

    1999 mission alternative, 2-1

    2001 mission alternative, 2-1, 2-2, 2-12, 2-14, 2-20, 2-23, 4-11

Mission objectives, iii, 1-1, 2-2

Monomethylhydrazine, 2-4, 2-9

-N-

National Aeronautics and Space Administration (NASA), i, iii, 1-1, 1-2, 2-1, 2-7, 2-17, 4-1, 4-10

National Environmental Policy Act (NEPA), i, iii, 1-2, 4-13

Nitrogen tetroxide, 2-4, 2-9

No-Action Alternative, vi, 2-1, 2-14, 4-12

-P-

Payload Fairing, 2-10

Plutonium dioxide, i, vi, vii, 1-1, 2-4, 2-16, 2-17, 2-18, 2-19, 4-2, 4-3, 4-4, 4-6

Proposed Action

    alternatives to, vi, 2-1

    description of, 2-1, 2-2

    environmental consequences of, vi, 2-14, 4-1

    purpose of, 1-2

Propulsion Module Subsystem (PMS), 2-9

-R-

Radioisotope Heater Unit (RHU), i, v, vi, vii, 1-1, 2-4, 2-6, 2-16, 4-1, 4-2

Radioisotope Thermoelectric Generator (RTG), i, v, vi, vii, 1-1, 1-2, 2-4, 2-6, 2-10, 2-12, 2-16, 4-1, 4-2, 4-4, 4-6

Range safety, 2-12

Record of Decision, ii, iii, 1-1, A-1

References, 8-1

Rhenium engine, vi, 2-13, 2-22

Risk

    general, i, vii, 1-2, 2-9, 2-13, 2-17, 2-18, 2-19, 2-24, 4-2, 4-6

    Health effects mission risk, 2-17

-S-

Safety

RTG design, 2-9, 2-18

Saturn, i, ii, iii, iv, 1-1, 1-3, 2-1, 2-2, 2-6

Solar array, 2-4, 2-6, 2-7, 2-9

Solid Rocket Motor Upgrade (SRMU), ii, vi, viii, 1-1, 1-2, 2-1, 2-9, 2-10

Source term, vi, vii, 2-18, 2-19, 2-20, 4-2, 4-4, 4-6, Appendix D

Space Vehicle Destruct System (SVDS), 2-13

Spacecraft Propulsion Module Subsystem (PMS), 2-9

Swingby (see Gravity Assist)

-T-

Titan IV, ii, vi, viii, 1-1, 1-2, 2-1, 2-9, 2-10

-U-

Ulysses mission, vii, 1-2, 2-9, 2-17, 2-19, 2-20, 4-2, 4-4, 4-6, 4-10

Uncertainty, 4-9

Upper stage, 2-10

-V-

Venus, 2-2, 2-14

# **Cassini Mission**

## **Final Supplemental Environmental Impact Statement**

### Executive Summary

Chapter 1	Appendix A
Chapter 2	Appendix B
Chapter 3	Appendix C
Chapter 4	Appendix D
Chapter 5	Appendix E
Chapter 6	
Chapter 7	
Chapter 8	